# **National Geospatial-Intelligence Agency (NGA)**



# **Boosting Innovative GEOINT (BIG)**

**Broad Agency Announcement (BAA)** 

HM0476-16-BAA-0001

Amendment 1 (Topics 2 and 3)

15 June 2016

## UNCLASSIFIED

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#### 1 INTRODUCTION

This Broad Agency Announcement (BAA) by the National Geospatial-Intelligence Agency (NGA) solicits offers for the award of contracts under the Boosting Innovative GEOINT (BIG) for inventive, actionable ideas and proposals that will enhance GEOINT and welcomes all innovative ideas for path-breaking research and innovative techniques that may advance the GEOINT mission. This requires new ways of doing business in order to meet unexpected and emergent requirements of the dynamic world we live in and anticipate tomorrow's unknown challenges. Specifically, NGA is seeking ideas and techniques that makes the biggest change and promotes moving the Agency forward on different path in lieu of improving the current path we are pursuing. This BAA is published in accordance with FAR Part 35.016 and 6.102(d) (2). A formal Request for Proposal (RFP), solicitation or additional information regarding this announcement will not be issued.

NGA will not issue paper copies of this announcement. NGA reserves the right to fund all, some or none of the proposals in response to this announcement and to create and maintain a reserve list of proposals for potential funding in the event that sufficient funding becomes available. NGA provides no funding for direct reimbursement of proposal development costs. White papers, technical and cost or price proposals (or any other material) submitted in response to this BAA will not be returned. All proposals will be treated as sensitive competitive information and their contents will be disclosed only for the purposes of evaluation. All proposals submitted shall be appropriately marked "Unclassified" for Topic 2. For Topic 3, all document submittals shall contain the appropriate security classification markings.

## 1.1 Agency Name

National Geospatial-Intelligence Agency (NGA), 7500 GEOINT Drive Springfield, VA 22150

## 1.2 Research Opportunity Title

Boosting Innovative GEOINT (BIG)

## 1.3 Research Opportunity Number

HM0476-16-BAA-0001

#### 1.4 Submission / Locations

## THIS WILL BE A TWO-STEP BAA:

**First Step: WHITE PAPER DUE DATE AND TIME: Will vary per Research Objective. Only white papers are due at this step.** It will not be possible to submit white papers after the 11:59 AM (Eastern Time) on the due date specified in Section 9. All white paper submissions must comply with the submission guidelines/templates provided on the respective websites. Failure to comply may result in the rejection of the white paper during the review.

**Second Step: FULL PROPOSAL DUE DATE AND TIME:** Proposals will only be accepted in response to invitations for full proposals requested from NGA Contracting Officers to Offerors with white papers determined to be technically acceptable as evaluated against criteria published in this BAA. Full Proposals will be due 45 days after the Government extends an invitation to those Offerors who have been selected to submit a Full Proposal no later than 11:59 AM (Eastern Time) on the specified due date listed in the Request for Proposal.

## 1.5 Research Objectives/Opportunity Description

# 1.5.1 TOPICS/CHALLENGES: BOOSTING INNOVATIVE GEOINT (BIG)

NGA is moving to an environment in which the use of diverse data sources to address customer needs and knowledge gaps will become an everyday practice. This environment will be marked by the inclusion of open source and commercially available data as well as the traditional government-sponsored data collections on which NGA has mainly depended. Combining these new sources with the reliability and accuracy of dedicated sensors will enable our customers to have a greater understanding of the foundational structure of the world, its dynamic interactions, and even anticipate potential impacts. However, unlike the past where we have relied largely on volume-based collection to satisfy needs and gaps, in the future we will focus on maximizing, for the customer, the value of the data we explicitly source and orchestrate.

Topic Area 1: Value (Closed)

## **Topic Area 2: Artificial Intelligence Automation (Unclassified)**

Analysts are constrained by their ability to multi-task and process large quantities of information. On a daily basis NGA analysts synthesize large quantities of data, resolve multiple sources of content to a single object, prioritize tasks to mission needs, collaborate with other organizations, and carry out tedious workflows in order to discover analytically relevant content to create data-centric assessments. NGA requests input from industry and academia on approaches to incorporate smart technology into the workplace as an Analyst Virtual Assistant (AVA). NGA uses Gartner Group's definition of smart technology: "smart machines technologies adapt their behavior based on experience, are not totally dependent on instructions from people (they learn on their own) and are able to come up with unanticipated results." ("How to Define and Use Smart Technology Terms Effectively" Gartner Group, March 2016) Conceptually, AVA is a combination of a virtual personal assistant, a smart advisor, and a product socializer. NGA expects AVA to observe analysts' content, behavior and actions; build and maintain data models (to include analytic models); predict and make recommendations based on the user's needs; socialize the user's models and products to other users with similar accounts or activities; and act autonomously on the user's behalf. In addition, NGA would like AVA to provide NGA analysts with recommendations and advice on new data-centric analytic hypotheses, suggest potential next steps for workflows, make recommendations on best decisions to take, or give the best answers to analyst-initiated questions. NGA seeks to have AVA make everyday tasks easier, reduce timelines and permit analysts to increase the complexity of datacentric analyses, encourage collaboration, and enable analysts to answer key questions more rapidly.

**Topic Area 3: Synthetic Aperture Radar (SAR) Image Formation (Classified)** See BAA Paragraph 10 Addendum for classified ARC Instructions.

#### 2 GENERAL INFORMATION

## 2.1 Questions about this BAA

Offerors will be directed to use the Intelligence Community (IC) Acquisition Research Center (IC ARC), hereafter referred to as the IC ARC, for questions and answers (Q&A) at <a href="https://acq.westfields.net">https://acq.westfields.net</a>. For Topic 2, questions close on 13 July 2016. Close date for Topic 3 Questions addressed on the classified ARC.

## 2.2 BAA Open Period

This BAA will remain open in FEDBIZOPPS for a period of three (3) years from the date of posting with an overall ceiling of \$5,000,000.

Over the life of this BAA amendments shall be issued through FEDBIZOPPS for white papers or proposals calling for additional (specific) research efforts or areas of interest identified by NGA. Amendments to this BAA shall be posted to FEDBIZOPPS when appropriate. Interested parties are encouraged to periodically check these websites for updates and to establish automated alerts notifying them of any amendment postings.

Through this competition, NGA anticipates making multiple contract awards in the Topic Areas described in the BAA. All awards will be based on merit competition.

#### 2.3 Amendments

Amendments or links to amendments will be posted to the FEDBIZOPPS – https://www.fbo.gov/

Although other web pages may repost these amendments, Offerors are advised that the FEDBIZOPPS web page is the only official record.

#### 2.4 Basis of Award

Awards will be based on the best full proposals that are determined to be most beneficial to the Government with appropriate consideration given to the evaluation factors, order of importance, and selection preferences. Award will be made to the Offerors whose submission is determined to advance the best ideas or concepts, has the highest competence in the specific field of science, has technical merit, and/or has importance to Agency programs based on the factors and preferences of this BAA. This may not necessarily be the proposal offering the lowest cost/price or receiving the highest evaluated rating.

#### 2.5 Notifications

The evaluation status of white paper packages and full proposals will be provided at two points. An email will be sent to each Offeror after completion of white paper package evaluations. The email will either inform the Offeror that their white paper is no longer under consideration or will be invited to prepare a full proposal in accordance with instructions contained in Section 5 below. In a similar manner, Offerors that submit a full proposal will receive an email informing them that their proposal is either no longer under consideration or they will receive an award document.

## 2.6 Award Value (Topics 2 and 3)

The target award value for contracts is dependent on funding and the Research Objective, but will not exceed \$500k. White papers or proposals submitted for greater than \$500k may be eliminated from further consideration.

#### 3 ELIGIBILITY

## 3.1 Eligible Sources

NGA is seeking innovative approaches to problem solving and strongly encourages all types of US organizations--universities, small businesses, non-profits, large companies, etc. -- to submit ideas in the form of white papers. All responsible sources capable of satisfying the Government's needs may submit a white paper under this BAA.

## 3.2 Foreign Participants

Foreign participants and/or individuals may participate to the extent that such participants comply with any necessary Non-Disclosure Agreements, Security Regulations, and any other applicable statutes. Some requirements may cover export-controlled technologies. Research in these areas is limited to "U.S. persons" as defined in the International Traffic in Arms Regulations (ITAR), 22 CFR §1201.1.

## 3.3 Federally Funded Research & Development Centers (FFRDCs)

Federally Funded Research and Development Centers (FFRDCs) and Government entities are subject to applicable direct competition limitations and cannot propose to this BAA in any capacity unless they address the following conditions (applies to FFRDCs and Government entities proposing as a prime or subcontractor):

- FFRDCs must clearly demonstrate that the proposed work is not otherwise available from the private sector.
- FFRDCs must provide a letter on letterhead from their sponsoring organization citing the specific authority establishing their eligibility to propose to Government solicitations and compete with industry and compliance with the associated FFRDCs sponsor agreement's terms and conditions.
- Government entities must clearly demonstrate that the work proposed is not otherwise available from the private sector.

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• Government entities must provide written documentation citing specific statutory authority establishing their ability to propose to Government solicitations.

## 3.4 Department of Defense Laboratories

Department of Defense laboratories are not eligible to receive awards under this BAA and should not submit white papers in response to this BAA. As with FFRDCs, these organizations may team with responsible sources from academia and industry that are submitting proposals under this BAA.

## 3.5 University Affiliated Research Centers (UARCs)

University Affiliated Research Centers are eligible to submit proposals under this BAA unless precluded from doing so by their Department of Defense UARC contracts.

## 3.6 Teaming

NGA will also accept white papers and proposals from teams (industry and industry, industry and university, university and university, etc.). Offerors who propose a teaming arrangement must name which organization will operate as the main point-of-contact or lead for the team. Both the white paper, and if requested, the proposal must be submitted by the team lead organization. A description of each team member's role in the team must be included. NOTE: In the event of an award to a team proposal, the contract award will be made to the team lead (Prime) organization named in the proposal for the purposes of contract administration.

Teams are also encouraged and may submit proposals in any and all areas. However, Offerors must be willing to cooperate and exchange software, data and other information in an integrated program with their team members.

#### 4 WHITE PAPER PACKAGE PREPARATION & SUBMISSION INSTRUCTIONS

#### 4.1 White Papers

All Offerors submitting white papers must have an active registration in SAM at <a href="https://www.sam.gov/portal/public/SAM">https://www.sam.gov/portal/public/SAM</a>. To be accepted for evaluation, a research white paper must be received in complete form by the Government in accordance with the following paragraphs.

White papers shall address one of the requirements listed in Section 1.5 of this announcement. Only UNCLASSIFIED white papers will be accepted for Topics 2. For Topic 3, See Addendum for Classified Topic, Section 11, Page 28. If an Offeror does not submit a white paper before the specified closing date and time, the Offeror will not be eligible to submit a full proposal. The Government's decision to invite a full proposal will be based upon the evaluation results of the white paper submission. White papers should focus on one requirement per paper. There is no limit on the number of white papers an Offeror may submit in response to this BAA.

Submission of a white paper does not obligate the institution to submit a proposal or the Government to invite the submission of a proposal. Upon receipt, NGA will review a white

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paper and advise the Offeror of the results ("Go" or "No Go") of the review within approximately 25 business days following receipt of the white paper. The Government may contact the Offeror for additional discussions and clarifications. Offerors whose white papers receive a favorable review will be invited to prepare a full proposal in accordance with instructions contained in Section 5 below. On occasion, this invitation may contain feedback. Debriefings will not be provided for white papers that receive a "No Go". An invitation to prepare a proposal does not obligate the Offeror to submit a full proposal, or the Government to make an award if the Offeror submits a proposal.

## **4.2** Format of White Papers

## 4.2.1 Number of Pages

The white paper is limited to four (4) single-sided pages (excluding cover letter, cover page and estimated cost). Pages submitted in excess of the white paper page limit will not be read or evaluated.

## **4.2.2** Number of Copies & Format

One electronic copy of the white paper, in a searchable Portable Document Format (PDF), shall be emailed to NGA\_BIG\_BAA@nga.mil. See BIG BAA Addendum for instructions on Topic 3.

#### 4.2.3 Text & Font Format

White papers shall be prepared single-spaced in 12 point Times New Roman font, with at least one inch margins on top, bottom and sides, for printing on  $8\frac{1}{2}$  x 11 inch paper. Pages shall be numbered consecutively. Bolding, underlining, and italics may be used to identify topic demarcations or points of emphasis. Graphic presentations, including tables, while not subject to the same font size and spacing requirements, shall have spacing and text that is easily readable.

#### 4.2.4 Headers

The Offeror's name, applicable BAA number and Research Objective shall be in the header of each page. The header may be included in the one-inch margins.

#### 4.2.5 Virus Check

Perform a virus check before submitting the white paper. If a virus is detected, it may cause rejection of the file.

## 4.2.6 Security

Do not lock or encrypt any files submitted as part of your white paper submission.

## 4.3 White Paper Package Structure

- A one page cover letter (optional)
- A cover page, labeled "(TOPIC NUMBER AND NAME as appropriate) WHITE PAPER," that includes the BAA number, proposed title, and proposer's technical point of contact, telephone number, fax number and email address. Paper titles should indicate the focus of the proposed basic research.

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- Identification of the problems and issues
- Proposed research, technical approaches <u>and how it advances the topic</u>
- Potential impact on and contributions to NGA capabilities
- Teaming arrangement, if applicable
- Summary of estimated costs

The cost portion of the proposed research identified in the white paper shall contain a brief summary of the estimated costs, which include labor and other direct costs (ODCs) (i.e., material costs, travel.)

Any proprietary data included in submissions must be identified. The Offeror must also identify any technical data contained in the white paper that is to be treated by the Government as limited rights data. In the absence of such identification, the Government will assume unlimited rights to all technical data in the white paper. Records or data bearing a restrictive legend may be included in the white paper. However, Offerors are cautioned that portions of white papers may be subject to release under terms of the Freedom of Information Act, 5 U.S.C. 552.

## 4.4 White Paper Package Evaluations

#### 4.4.1 Evaluation Criteria

White paper packages will be evaluated using three criteria. All factors will be evaluated using a "Go" or "No Go" decision making process. Adjectival Ratings in Section 5.7.1 will be used to determine which white papers are recommended for the "Go" or "No Go" determination. A rating below Satisfactory in either Factor #1 or #2 will not be considered for further review.

- Factor #1 Contribution to the Requirement
  The degree to which the technical approach is relevant to the proposed requirement.
- Factor #2 Technical Approach/Qualifications
   The degree to which the technical approach is innovative, feasible, achievable, complete and supported by a technical team that has the expertise and experience to accomplish the proposed tasks.
- Factor #3 Cost/Price
  The degree to which the proposed cost or price is realistic for the proposed technical approach and does not exceed \$500,000.

## 4.4.2 Order of Importance

Factor #1 and Factor #2 are equally important. Factors #1 and #2 when combined are significantly more important than Factors #3. The Government is more concerned with obtaining superior technical capabilities than with making awards at a lower cost to the Government.

#### 5 REQUIREMENTS FOR PROPOSALS

#### 5.1 Overview

Proposals may offer applied research, but must include a simulation, limited development and/or capability demonstration in both the Government's Development Test Environment and the Government's Demo Ops Environment. Unclassified demonstrations will be conducted at NGA's NCE facility to maximize government participation. Exceptions can be made to the venue if the infrastructure at NGA is not robust enough to run the demonstration effectively. Offerors should propose the different demonstration venue as part of the proposal.

Through this competition, NGA anticipates making multiple contract awards in the Topic Areas described in this BAA. All awards will be based on merit competition. The goal is to make awards among the various Topic Areas. However, depending on the quantity and quality of proposals received, NGA may elect to not make any award(s) under a research Topic Area. The NAICS codes for this procurement includes 541712, Research and Development in the Physical, Engineering and Life Sciences, but other NAICS codes may apply as well.

Note: Only procurement contracts will be awarded as a result of this BAA. Grants, cooperative agreements, and/or any other forms of federal assistance will not be awarded.

If NGA determines merit in any white paper submission, NGA at its discretion, may invite the Offeror to provide a full proposal for their effort.

The Government will evaluate all proposals submitted under the terms and conditions of this BAA. Proposals will be evaluated against criteria in Section 5.7 below. The estimated contract start date identified in Section 9 should be used for budget and proposal purposes. Registration in the DoD's System for Award Management (SAM) database is a prerequisite for receiving an award resulting from this BAA. Proposals shall reflect compliance or initiation of compliance with this regulation. SAM is accessed via Internet at http://www.sam.gov for more information. The Offeror's DUNS number (and CAGE code if one has been assigned) must accompany the proposal in order to verify SAM registration. Proposals shall identify the Offeror's taxpayer identification number.

#### **5.2** Inquiries from Offerors

Potential Offerors can submit questions or comments regarding this BAA, but these must be submitted via the Acquisition Research Center (ARC) at <a href="https://acq.westfields.net">https://acq.westfields.net</a>. Institutions of all kinds also can register for future unclassified RFP and BAA solicitations. See Addendum for instructions on Topic 3.

Once registered and logged in at the ARC, potential Offerors can click and select the GEOINT Analysis ARC page under NGA. Offerors must use the Q&A link on that page to submit a question or comment, and to view the responses to all questions and comments, including those submitted by other organizations. For technical questions/comments, Offerors should reference the Topic Area number in order for the Government to better direct and respond to Topic Area questions. Cut-off date for questions varies per Research Objective (See Section 9).

Requests for hard copies of the BAA will not be honored. Interested parties must stay apprised of this solicitation including revision information and answers to submitted questions by checking http://fedbizopps.gov. Amendments to the BAA will only be posted on <a href="http://fedbizopps.gov">http://fedbizopps.gov</a>.

#### **5.3** Submission Information

Offerors shall submit their proposals via email to NGA\_BIG\_BAA@nga.mil.

- NGA will acknowledge receipt of the proposal.
- The submission shall be provided in three distinct volumes: Technical, SOW, and Cost/Price. Proposals should be three MS Word file or three searchable PDF file with Copy permission granted.
- Files must not be zipped (.zip), and must be no more than 3.0 MB in file size.
- Offerors may submit more than one proposal across Topic Areas but each individual proposal shall reference BAA Number HM0476-16-BAA-0001 and shall specifically identify the Topic Area for which it is being submitted. Although a proposal may be relevant to more than one Topic Area, it must be submitted under one Topic Area. The Government will only accept unclassified proposals for Topics 2 and 4.
- All documents shall be unclassified and shall be marked as "UNCLASSIFIED."

#### 5.4 Late Submissions

Proposals will only be considered for award if submitted in a timely manner. If a proposal is submitted in an untimely manner, after 11:59 AM (Eastern Time) on the due date, the criteria in Federal Acquisition Regulation part 15.208 will apply.

- FAR 15.208 includes the following provisions:
- "Any proposal, modification, or revision, that is received at the designated Government office after the exact time specified for receipt of proposals is "late" and will not be considered unless it is received before award is made, the contracting officer determines that accepting the late proposal would not unduly delay the acquisition; and—
- If it was transmitted through an electronic commerce method authorized by the solicitation, it was received at the initial point of entry to the Government infrastructure not later than 5:00 p.m. one working day prior to the date specified for receipt of proposals; or
- There is acceptable evidence to establish that it was received at the Government installation designated for receipt of proposals and was under the Government's control prior to the time set for receipt of proposals; or
- It was the only proposal received."

When sending electronic files, the Offeror shall account for potential delays in file transfer from the originator's computer server to the Government website/computer server. Offerors are encouraged to submit early to avoid potential file transfer delays due to high demand or problems encountered in the course of the submission.

Acceptable evidence to establish the time of receipt includes electronic evidence of receipt. Offerors should print and maintain for their records the delivery/read receipt with the date/time appearing in the email submission. All submissions shall be emailed to the <a href="MGA\_BIG\_BAA@nga.mil">MGA\_BIG\_BAA@nga.mil</a> mailbox before the due date and time in order to be considered. See BIG BAA Addendum for instructions on Topic 3. <a href="There will be no exceptions">There will be no exceptions</a>.

If an emergency or unanticipated event interrupts normal Government processes so that proposals cannot be received at the site designated for receipt by the date and time specified, then the date and time specified for receipt will be deemed to be extended to the same time of day specified in the BAA on the first work day on which normal Government processes resume.

Proposals may be withdrawn by written notice received at any time before award. Withdrawals are effective upon receipt of notice by the Contracting Officer.

## 5.5 Proposal Format

Proposals must be complete and self-contained to qualify for review.

- Proposals shall be prepared single-spaced in 12 point Times New Roman font, with at least one inch margins on top, bottom and sides, for printing on 8½" by 11" paper.
- Separate attachments, such as institutional brochures or reprints that are not germane to the proposal, are not allowed, and will not be reviewed.

Do not lock or encrypt any files emailed as part of the proposal submission. Proposal prices and terms and conditions shall remain valid for 365 days from the submission date. Perform a virus check before emailing any files to the submission websites. If a virus is detected, it may cause rejection of the file.

#### 5.5.1 Cover Page

The cover page shall include the BAA number, proposal title, and the specific TOPIC addressed.

Although a proposal may span more than one topic, it must be submitted under only one
topic. Please ensure the Topic is clearly identified. The cover page must also indicate the
name, phone number, fax number, postal address, and email address of both the Offeror
Technical point of contact AND the appropriate Contracting point of contact that has the
authority to negotiate and commit the Offeror to a binding contract.

#### **5.5.2** Executive Summary

Provide a proposal summary no longer than one page. This shall summarize the significant and important characteristics, approaches and proposed research to further the objectives in the relevant topic.

## 5.5.3 Project Description

The project description portion of the proposal shall be limited to 7 pages and should clearly:

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- A. Describe in detail the research to be undertaken. State the objectives and approach and the relationship to state-of-knowledge in the field and to similar work in progress. Include appropriate literature citations and prior work. Discuss the nature of expected results.
- B. Describe the qualifications of the lead researcher and the qualifications of other key researchers involved in the project. For teaming or collaborations, the Offeror must name one responsible technical point-of-contact that will lead the effort.
- C. List any proposals submitted, existing funding, or relationships with Federal or State Government, Dept. of Defense, and/or NGA any existing contracts, grants, Mentor-Protégé agreements, etc. for the same or similar work. Provide any details that are important for consideration.
- D. Discuss any travel and/or material proposed, the purpose and how they relate to the research proposed. Do not include costs in this section.
- E. Describe the approach to the deliverables that the Offeror will provide and confirm the required deliverables described in the Statement of Work will be provided. Offerors may propose additional deliverables.

#### **5.5.4** Statement of Work

The statement of work (SOW) should clearly detail the scope and objectives of the effort and the specific research to be performed.

If the proposal is selected for award:

- The proposed SOW will be used as the basis of negotiation and the negotiated version will be incorporated as an attachment to any resulting award. The SOW shall not include any proprietary restrictions.
- The SOW shall be enforceable, and should be void of inconsistencies.
- The proposed SOW should contain a summary description of the technical methodology, as well as a thorough task description, but not so much as to make the SOW overly detailed.
- The SOW shall be limited to five pages and will not count toward the total page count of the project description. The SOW is included as part of the **3.0 MB** file size limitation.
- A. The following decimal numbering system is required for SOW preparation:

Table of Contents

- 1.0 Objective
- 2.0 Scope
- 3.0 Background
- 4.0 Tasks/Technical Requirements 1st sub-level 4.1 Task 2nd sub-level 4.1.1 Sub-task

#### 3rd sub-level 4.1.1.1 Second level sub-task

- B. Potential Offerors should not include their names, or any proprietary information in the SOW.
- C. The following is the format, as well as explanation of the elements that should be incorporated into the SOW. Begin the SOW at Paragraph 1.0.
  - 1.0– Objective: (give a brief overview of the specialty area, describe why it is being pursued, what you are trying to accomplish, and how it advances the topic)
  - 2.0– Scope: (Include a statement of what the SOW covers, i.e., technology area to be investigated, objectives/goals, and major milestones for the effort.)
  - 3.0– Background: (Identify appropriate documents that are applicable to the effort being performed. This section includes any information, explanations, or constraints that are necessary in order to understand the requirements. It may include relationship to previous, current, and future operations, as well as techniques previously tried.)

## 4.0– Technical Requirements:

- (a) A clear, detailed description of tasks that represent the work to be performed which are contractually binding. This portion of the SOW should be developed in an orderly progression and in enough detail to establish the feasibility of accomplishing the overall program goals and how it advances the topic. The work effort should be segregated into major tasks and identified in separately numbered paragraphs according to the decimal system above. Each numbered major task should delineate, by subtask, the work to be performed. The SOW must contain every task to be accomplished.
- (b) All tasks must be definite, realistic, and clearly stated. Use "shall" whenever the work statement expresses a provision that is binding. Use "should" or "may" whenever it is necessary to express a declaration of purpose. Use "will" in cases where no Offeror equipment is involved; e.g., power will be supplied by the Government. Use active voice in describing work to be performed.
- (c) Do not use acronyms or abbreviations without spelling-out acronyms and abbreviations at the first use; place the abbreviation in parenthesis immediately following a spelled-out phrase. This provides the definition for each subsequent reuse.
- (d) If presentations/meetings are identified in your schedule, the following paragraph is required in the SOW: "Conduct presentations/meetings at times and places specified and mutually agreed to with the Government." If travel is identified put the following statement in the SOW: "All travel will be accomplished in accordance with the Federal Joint Travel Regulations."

#### 5.0- Contract Deliverables:

All contract deliverables associated with this proposal shall be identified and described in detail under this section. Below are the required contract deliverables for this BAA. The proposed effort shall be tailored to these contract deliverables. If the Offeror wishes to propose other deliverables besides those listed below, they shall be described separately. A proposal may be deemed "Unacceptable" if it does not identify and clearly describe the final deliverables to the Government.

Specific contract deliverables for all Topic Areas are as follows:

- (1) Payment Milestone Deliverable CONOPS: This deliverable will describe a day in the life with the proposed capability. It should articulate how either topic area will be significantly better as a result of the capability or how the mission will be significantly benefited by its employment. This deliverable will be completed at the half-way point of the effort's Period of Performance.
- (2) Payment Milestone Deliverable Demonstration in the Government's Development Test Environment: This simulation, initial operational prototype and/or capability demonstration will be completed 15 days before the end of the contract. Also due at that time are copies of algorithms, software code, software tools or other research artifacts developed with funds from this contract. (The Offeror shall provide a description of the type of demonstration and nature.)
- (3) Research Report: This report will contain the research conclusions regarding the topic area addressed. This report will be delivered 15 days before the end of the contract. This report shall include how the Government might realize a value and benefit of the proposed effort. It may also include the Offeror's concept of future commercialization of their research or technology and/or potential transition to the marketplace as a result of their effort.

#### 5.6 Cost/Price Proposal

The financial portion of the proposal shall contain costs or prices in sufficient detail for meaningful evaluation. The Government will perform a cost or price analysis on all proposals submitted, as applicable. If applicable, the contractor shall include the name, address, and telephone number of the Offeror's cognizant Defense Contract Audit Agency office. There is no page limitation on the cost/price proposal; however, the cost/price proposal is included as part of the overall size limit of **3.0 MB** for the proposal. For cost proposals, offerors must be sure to include any current Forward Pricing Rate Agreement (FPRA) in effect at the time of the proposal submission. If FPRA's are referenced, provide the name, address, and telephone number of the cognizant Administrative Contracting Officer (ACO).

For cost proposals ONLY, the cost elements required in the proposal shall include, but are not limited to:

A. Labor: Provide a table of the estimated number of hours by labor category and the burdened hourly rate. Documentation detailing the basis of labor rates and labor hours should also be provided.

Labor breakout (Sample ONLY)

Labor Category	Hours	Rates	Total
System Engineer	960	\$54.75	\$52,560
Technical Engineer	560	\$42.15	\$23,604
Software Engineer	960	\$79.60	\$76,416
Software Engineer II	960	\$84.76	\$81,369
TOTAL	3,440		\$233,576

**B.** Material: All costs, to include material costs not included in overhead. Material handling rates and the base the rates are applied against should be discussed. Unique material/equipment costs should be listed by type and kind with associated costs. Please advise if the costs are based on vendor quotes, data, engineering estimates, and provide copies of vendor quotes and/or catalog pricing data.

Note: General purpose office equipment (laptops, phone, fax, software licenses, etc.) required to complete the work shall be provided by the contractor.

Material Cost Breakout (Sample ONLY)

Item	Price	Quantity	Total	Back Info
Electron Microscope	\$1,000	3	\$3,000	Vendor Quote #1234
Test Equipment	\$150	15	\$2,250	Vendor Quote #5678
TOTAL			\$203,910	

- C. Travel: This shall include the trips proposed with a breakdown per trip of the number of travelers, location, and duration, proposed costs for transportation, rental car and perdiem. Travel shall be accomplished in accordance with the Federal Joint Travel Regulations.
- D. Other Direct Costs: All other direct costs required for contract performance shall be proposed. The Offeror shall support the proposed costs with backup documentation to allow for price justification.
- E. Subcontractor costs: Per FAR 15.404-3 (b), all subcontractor proposals and analyses should be submitted with the cost proposal. If the subcontractor will not submit cost and pricing data to the proposer, this information must be submitted directly to the government for analysis at the same time the Prime Offeror information is submitted. For all subcontracts, provide the method or selection used to determine the subcontractor and the proposed contract type of each subcontractor.

- F. Consultants: When consultants are proposed to be used in the performance of a contract, indicate the specific project or area in which such services are to be used. Identify each consultant, number of hour or days to be used and the consultant(s) rate per hour or day. State the basis of the rate and your analysis, and provide a copy of the consultant agreement, if applicable.
- G. Profit: The Offeror shall discuss the profit amount and provide an explanation of what costs profit is applied against.
- H. Total Cost: The Offeror shall provide a summary of the cost. The summary will show all the costs and how they make up the total cost.
- For fixed-price proposals, the above-described breakout of costs is not required nor requested. Rather, for fixed-price proposals, the Offeror need only submit the proposed offer price.

## 5.7 Proposal Evaluation and Selection Process

Proposals are evaluated solely on the criteria published in this BAA. The proposal must stand on its own merit as submitted. Each proposal will be evaluated on its own merits or non-acceptability without regard to other proposals submitted under this announcement.

#### 5.7.1 Evaluation Criteria

The evaluation criterion are:

I. Scientific and Technical Merits of the proposed research (equally important as Criteria II and more important than Criterion III and IV)

The proposed scientific and technical approach is feasible, achievable and complete to accomplish the proposed tasks that will advance the topic to meet unexpected and emergent requirements.

II: Relevance and Potential Contributions (equally important as Criteria I and more important than Criterion III and IV)

The relevance and potential contributions of the research, to include tools, algorithms, and/or computer code in support of the objectives, specific topic area and deliverables defined in the Statement of Work. NGA is looking for new, innovative approaches or concepts that have the likelihood of being able to be integrated into NGA systems.

Evaluation criteria, of lesser importance than Criterion I and II are:

#### III: Performance Confidence

The proposed scientific and technical approach is supported by a proposed technical team that has the expertise and experience to accomplish the proposed tasks.

IV. For a Cost proposal, NGA will conduct a cost analysis per FAR 15.404-1(c) and (d). This cost analysis will consider the reasonableness and realism of the proposed cost. For a Price proposal, however, NGA will conduct a price analysis per FAR 15.404-1(b). This price analysis will consider the reasonableness of the proposed price.

## **5.7.2** Selection Process

The evaluation process is a two-step review process:

Proposals will be grouped together by topic.

Contractors will not be evaluators. However, some NGA support contractors who are subject-matter experts for Topic Areas may provide expert advice to the Expert Team and/or Evaluation Panel and some will provide administrative support for the evaluation process.

- A. Step one, Initial Evaluations: Proposals will be initially evaluated, adjectival rated (Blue-Outstanding, Green-Excellent, Yellow-Satisfactory, or Red-Unsatisfactory), and rated within each topic by a Government Expert Team using the criteria in Section 5.7.1 above. Within each topic, the Expert Team will individually evaluate each proposal on its own merit and then come to consensus on each proposal.
- B. Step two, within each topic, the Evaluation Panel will consider the overall contribution of each proposal as reflected by the initial Expert Team evaluation, the potential contribution to the advancement of the targeted topic, the amount of similar or related research currently underway on a given topic, and the amount of available funding. The Evaluation Panel will make a recommendation for each proposal.
- C. Award Recommendations: The Evaluation Panel reviews the adjectival ratings and takes into account the diversity of proposals across the topic. Adjectival ratings will not be compared across topics. The Evaluation Panel compiles and forwards a list of proposals recommended for award in order of preference, along with a description and results of the evaluation process, to the Source Selection Authority (SSA) by topic for final selection.

In summary, the Evaluation Panel will recommend the proposals that most effectively advance the Research Objectives of Section 1.5 as evaluated under the criteria in Section 5.7.1. The number of awards made is dependent upon the amount of available funding. If additional funding becomes available within twelve months after receipt of proposals, NGA may choose to make additional awards under the terms of this BAA from the remaining selectable proposals.

## 5.8 DCAA-Approved Accounting System

Offerors selected for a cost-type award must have a Defense Contract Audit Agency (DCAA)-approved accounting system. Guidance is available at http://www.dcaa.mil. Offerors are encouraged to obtain DCAA accounting system approval prior to the award timeframe. Lack of a DCAA approved accounting system will delay and possibly prevent a cost-type or any other award.

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#### 6 PAYMENT

Payment shall be in accordance with the milestone table outlined below. The negotiated milestone table will be incorporated into the final contract.

Milestones Table: This shall be filled in by the Offeror. The Offeror can propose up to two (2) payment milestones. The last milestone has to be associated with the delivery of the demonstration and the final research report.

Milestone	Milestone Date	Milestone Amount
CONOPS	Halfway point of	25% - The Offeror shall fill the dollar
	the project	amount in based on its proposed price.
		This milestone is no more than 25% of the
		price.
Demonstration, Research Report,	15 days before	75% - The Offeror shall fill the dollar
and any final software or hardware	the end of the	amount in based on its proposed price.
developed under this effort	contract period	This milestone is no less than 75% of the
delivered. (The Offeror can tailor	of performance.	price.
this milestone description to meet		
the proposed deliverables)		

Small Businesses may propose payment terms in white paper submittals for the Government's consideration. Prime Large Businesses shall propose payment terms in accordance with the milestone table.

#### 7 OCI AFFIRMATION AND DISCLOSURE

## 7.1 5X52.09.507-9000 Organizational Conflict of Interest (JUNE 2004)

- (a) The term "organizational conflict of interest" means that because of other activities or relationships with other persons, a person is unable to or potentially unable to render impartial assistance or advice to the Government, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage. The term "person" includes a business organization.
- (b) The principals of organizational conflict of interest and descriptions thereof are set forth at FAR Subpart 9.5.
- (c) If the offeror/contractor is aware of a potential organizational conflict of interest (OCI), as defined at paragraph (a) above, with respect to this procurement, the offeror shall make immediate and full disclosure in writing to the Contracting Officer.
- (d) If in the performance of this contract the contractor discovers a potential organizational conflict of interest with respect to the contract, it shall make an immediate and full disclosure in writing to the Contracting Officer, which shall include a description of the

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actions the Contractor has taken or proposes to take to avoid, eliminate, or neutralize the conflict. In the event that the Contractor does not disclose a known potential conflict to the Contracting Officer, the Government may terminate the contract for default.

- (e) If the Contractor is directed by authorized Government personnel by written tasks or verbal directions (in program review or otherwise), to perform service which the Contractor believes to constitute a potential organizational conflict of interest, the contractor is required to notify the Contracting Officer in writing of the nature of the conflict within ten (10) days after receipt of the Government directive. The Contracting Officer has the sole responsibility for determining whether a conflict does, in fact, exist. No effort shall be expended toward the performance of the services in question until a determination has been made or otherwise directed by the Contracting Officer.
- (f) The Government has the unilateral right to waive one or more of the provisions of FAR Subpart 9.5 and this template, on a case-by-case basis, if it is determined by the Contracting Officer that a waiver is in the best interest of the Government. The Contractor must demonstrate to the Contracting Officer in writing that the Contractor can neutralize, mitigate or eliminate potential conflicts of interest.
- (g) Any restraints negotiated in response to FAR Part 9.507-2 as a condition of award due to an organizational conflict of interest, shall be incorporated into the instant contract or Delivery/Task Order(s) as appropriate. These restraints will have duration of not more than one year after completion of the contract effort or other time frame as determined by the Contracting Officer.
- (h) The Contractor shall insert Paragraphs (a) through (g) of this clause in all subcontracts.

## 7.2 Special Support Contractors

Organizations may provide administrative and Subject Matter Expert support for source selection execution; however, they will not be evaluators. Companies providing that support will be identified for each Topic Area at the time of posting in FEDBIZOPPS. Those companies identified will be prohibited from submitting white papers and proposals for the specified Topic Area.

#### 8 CONTRACT AWARDS & TERMS AND CONDITIONS

One, multiple, or no awards may be made as a result of this BAA, subject to the availability of funding. NGA anticipates awarding multiple contracts per topic area. The number of contracts awarded and the dollar value of the contracts may vary, but no one contract will have a value greater than \$500,000.

NGA reserves the right to accept proposals in response to the BAA in their entirety or to select portions of proposals for award. In the event NGA desires to award only a portion of a proposal, negotiations may be opened with that Offeror. Negotiations may result in funding levels or periods of performance different than originally proposed.

If additional funding becomes available within 12 months after receipt of proposals, NGA may choose to make additional awards under the terms of this BAA from the remaining proposals.

NGA reserves the right to allocate available funds among topics based on the quality of the responses and NGA priorities. Awards will be made at funding levels commensurate with the research.

Grants, cooperative agreements, and/or any other forms of federal assistance will not be awarded. Only procurement contracts will be awarded as a result of this BAA.

#### 8.1 Award Schedule

Awards will be made in accordance with the schedule listed under Section 9. All proposals shall be valid for a minimum of 365 calendar days.

## 8.2 Instrument Type

NGA anticipates awarding Firm Fixed Price Completion or Cost Reimbursement Completion contracts as a result of this BAA.

#### **8.3** Period of Performance:

The performance period shall not exceed 9 months from date of contract award.

#### **8.4** Place of Performance

All work shall be completed at the Offerors' facilities, except for a final demonstration/simulation deliverable, if applicable.

## 8.5 Government Furnished Property/Government Furnished Information (GFP/GFI)

The Government shall not provide GFP/GFI.

#### **8.6** Terms and Conditions

Each award as a result of this BAA will contain clauses with the following conditions.

## 8.6.1 Export Control

- a) Contractors shall comply with all U.S. export control laws and regulations, including the International Traffic in Arms Regulations (ITAR), 22 CFR Parts 120 through 130, and the Export Administration Regulations (EAR), 15 CFR Parts 730 through 799, in the performance of the resultant contract. In the absence of available license exemptions/exceptions, the Contractor shall be responsible for obtaining the appropriate licenses or other approvals, if required, for exports of (including deemed exports) hardware, technical data, and software, or for the provision of technical assistance.
- b) The contractor shall be responsible for obtaining export licenses, if required, before utilizing foreign persons in the performance of the resultant contract, including instances

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where the work is to be performed on site at any Government installation (whether in or outside the United States), where the foreign person will have access to export-controlled technologies, including technical data or software.

- c) The contractor shall be responsible for all regulatory record keeping requirements associated with the use of licenses and license exemptions/exceptions.
- d) The contractor shall be responsible for ensuring that the provisions of this clause (and any required DFARS clause) apply to its subcontractors as applicable or required.
- e) The contractor shall provide the Contracting Officer the identity of foreign nationals (other than those lawfully admitted into the U.S. for permanent residence) whom the contractor intends to use in support of this contract for Government review no less than 30 calendar days prior to their proposed start. If the contractor determines an applicable ITAR exemption requires action by the Government, including but not limited to 22 CFR 125.4 (b)(1), the exemption request shall be provided with submittal of the name. Only foreign nationals approved in writing by the Contracting Officer shall be permitted to work on this contract. Universities are also expected to utilize U.S. personnel, exceptions may be granted on a case by case basis.

## 8.6.2 Human Subject Use

Proposals selected for funding are required to comply with provisions of the Common Rule 32 (32 CFR 219) on the protection of human subjects in research (http://www.access.gpo.gov/nara/cfr/waisidx\_01/32cfr219\_01.html) and the Department of Defense Directive 3216.02

(http://www.dtic.mil/whs/directives/corres/pdf/321602p.pdf). All proposals that involve the use of human subjects are required to include documentation of their ability to follow Federal guidelines for the protection of human subjects. This includes, but is not limited to, protocol approval mechanisms, approved Institutional Review Boards (IRB), and Federal-Wide Assurances. These requirements are based on expected human use issues sometime during the entire length of the proposed effort. Approval is still required by NGA prior to work beginning involving human subject use. The recipient shall provide their IRB approval of specific research, the informed user consent form, and the protocol and related documents as requested for secondary approval by NGA.

#### 8.6.3 Animal Subject Use

Proposals selected for funding are required to comply with provisions of the (9 CFR I, Parts 1, 2, and 3) on the protection of animal subjects in research (http://www.access.gpo.gov/nara/cfr/waisidx\_08/9cfrv1\_08.html) and the Department of Defense Directive 3216.01 (http://www.dtic.mil/whs/directives/corres/pdf/321601p.pdf). If animals are to be utilized in the research effort proposed, the Offeror must complete a DoD Animal Use Protocol with supporting documentation (copies of American Association for Accreditation of Laboratory Animal Care (AALAC) accreditation and/or NIH assurance, Institutional Animal Care and Use Committee (IACUC) approval, research literature database searches, and the two most recent USDA inspection reports)

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and provide as part of its proposal. These requirements are based on expected animal use issues sometime during the entire length of the proposed effort. Approval is still required by NGA prior to work beginning involving animal subject use. The recipient shall provide their IACUC approval of specific research, and the protocol and related documents as requested for secondary approval by DoD.

#### **8.6.4** Pre-Publication Review

An NGA pre-publication review requirement of research results will be included in all awarded contracts.

## 8.6.5 Intelligence Oversight

NGA: 5X52.227-9001 Activities That Affect U.S. Persons (DEC 2004). This contract is sponsored by the National Geospatial-Intelligence Agency. All work and services to be performed hereunder shall be in strict compliance with procedures set forth in DoD 5240.1-R. DoD 5240.1-R is available at

http://www.dtic.mil/whs/directives/corres/pdf/524001r.pdf

## 8.6.6 Proprietary Data

All proposals containing proprietary data should have the cover page and each page containing proprietary data clearly marked as containing proprietary data. It is the Offeror's responsibility to clearly define to the Government what is considered proprietary data. Each proposal received will be retained at NGA. Proposals will not be returned.

## **8.6.7** Intellectual Property

- a) Any contract issued will include DFARS clause 252.227-7013 entitled Rights in Technical Data-Noncommercial Items and Clause 252.227-7014 Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation. In accordance with these clauses, if applicable, the Offeror shall provide the following information in the cost/price proposal:
  - 1) Noncommercial Items (Technical Data and Computer Software)
    Offerors responding to the BAA shall identify all noncommercial technical data and noncommercial computer software that it plans to generate, develop, and/or deliver in which the government will acquire less than unlimited rights, and to assert specific restrictions on those deliverables. Offerors are advised that the Government will use this information during the source selection evaluation process to evaluate the impact of any identified restrictions and may request additional information from the Offeror, as it may be necessary, to evaluate the Offeror's assertions. If no restrictions are intended, then the Offeror should state "NONE."
  - 2) Commercial Items (Technical Data and Computer Software) Offerors responding to this BAA shall identify all commercial technical data and commercial computer software that may be embedded in any noncommercial

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deliverables contemplated under the research effort, along with any applicable restrictions on the Government's use of such commercial items. The Government may use the list during the source selection evaluation process to evaluate the impact of any identified restrictions and may request additional information from the Offeror, as may be necessary, to evaluate the Offeror's assertions. If no restrictions are intended, then the Offeror should state "NONE."

### 3) Patents

Include documentation providing your ownership of or possession of appropriate licensing rights to all patented inventions (or inventions for which a patent application has been filed) that will be utilized under your proposal for the NGA program. If a patent application has been filed for an invention that your proposal utilizes, but the application has not yet been made publicly available and contains proprietary information, you may provide only the patent number, inventor name(s), assignee names (if any), filing date, filing date of any related provisional application, and a summary of the patent title, together with either: 1) a representation that you own the invention, or 2) proof of possession of appropriate licensing rights in the invention.

## 9 SIGNIFICANT DATES

The following table provides the significant dates referred to in the body of this announcement.

Action	Responsibility	Due Date			
Issue BAA Announcement	Government	8 December 2018*			
Open continuously for 3 years					
Topic No. 1 VALUE Closed					
<b>Topic No. 2 Artificial Intelligence Automatio</b>	n				
ARC Questions due not later than	Offeror	13 July 2016			
ARC Answers due	Government	20 July 2016			
White Papers due not later than	Offeror	27 July 2016			
White Paper Evaluations Completion/Notifications	Government	18 August 2016			
Request for Proposal Released (if invited)	Government	18 August 2016			
Proposals due not later than	Offeror	3 October 2016			
Anticipated Contract Award	Government	13 December 2016			
Topic No. 3 – Available on the Classified ARC					

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## 10 POINT OF CONTACT(S)

Topic 2			Topic 3		
Contracting Officer	Andrew J. Karl		Contracting Officer	Sarah E. Handy	
E-mail Address	Andrew.J.Karl@nga.mil		E-mail Address	Sarah.E.Handy@nga.mil	
Telephone	571-557-2382		Telephone	571-557-2468	
Contract Specialist	Natasha L. Ayers		Contract Specialist	Adrian T. Rike	
E-mail Address	Natasha.L.Ayers@nga.mil		E-mail Address	Adrian.T.Rike@nga.mi.	
Telephone	571-557-8675		Telephone	571-557-5746	

## 10.1 Technical Issues

If you have questions regarding the BAA please refer to the website discussed in Section 4.2 (Inquiries from offerors).

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#### 11 ADDENDUM FOR CLASSIFIED TOPICS

## Topic Area 3 Synthetic Aperture Radar (SAR) Image Formation

## 11.1 Instructions for Classified Topic Submission

Offerors are directed to use the classified Intelligence Community (IC) Acquisition Research Center (ARC) for Questions & Answers, White Papers, and Proposals submissions. For assistance, please refer to ARC 20 Users Guide under the Help Resources button at the top of the ARC page.

Logon to the **classified** ARC with same logon and password as you did on the unclassified ARC. The high side ARC website is: <a href="https://acq.nro.ic.gov">https://acq.nro.ic.gov</a>. Once you log in, it will send an email to your high side email and you must verify using the link in the email before it will log you into the site. You must validated/activate your high side account within 24 hours of trying to login to the classified ARC or it will be disabled. If it is disabled, you must contact the ACE Helpdesk at secure 855-4ACE or unclassified 702-230-6300.